IN THE SPECIFICATION

On page 6, please replace paragraph 15 with the following:

A pair of ~~back-to-back~~ parallel diodes 17 and 18 are coupled across the terminals 26 and 27 of the OP amp 20. The polarity of the diodes are reversed. These diodes conduct whenever the signal across these terminals exceeds a predetermined value, for instance, 0.8 volts. These diodes provide input protection to the amplifier and prevent a meter attached to the circuit from being overdriven or damaged by, for example, a large spike in the AC power line. The potential which may be applied to the amplifier before these diodes conduct is sufficient, as will be discussed, to cause a full scale deflection on the meter coupled to the circuit in at least one range of the meter.

On page 7, please replace paragraph 17 with the following:

The combination of the capacitor 24 and resistor [[24]] 25 are used to average the signal passed through the OP amp 20. The values of these components are selected so that the RC time constant causes the signals at the output of the amplifier to be smoothed into a single DC signal. Additionally, the value of the capacitor 24, when considered in connection with capacitors 10, 12 , 14 and 16, determines the overall high frequency gain of a circuit.